CLAIMS

1   1.   An apparatus comprising:

2   at least one processor;

3   a memory coupled to the at least one processor;

4   a plurality of logical partitions defined on the apparatus; and

5   a capacity manager residing in the memory and executed by the at least one

6   processor, the capacity manager managing at least one temporary resource on demand for

7   a specified resource-time for at least one of the plurality of logical partitions, the capacity

8   manager controlling access to a minimum resource specification for each of the plurality of

9   logical partitions to assure the at least one temporary resource may be recovered when the

10 specified resource-time has expired.

1   2.   The apparatus of claim 1 wherein the capacity manager resides in a partition

2   manager that manages the plurality of logical partitions.

1   3.   The apparatus of claim 1 wherein the capacity manager controls access to the

2   minimum resource specification for each of the plurality of logical partitions by not

3   allowing a sum of all the minimum resource specifications for all of the plurality of logical

4   partitions to exceed a total of base resources in the apparatus.

1   4.   An apparatus comprising:

2   at least one processor;

3   a memory coupled to the at least one processor;

4   a plurality of logical partitions defined on the apparatus;

5   a partition manager residing in the memory and executed by the at least one

6   processor, the partition manager managing the plurality of logical partitions, the partition

7   manager comprising:

8   a capacity manager that manages at least one temporary resource on

9   demand for a specified resource-time for at least one of the plurality of logical

10   partitions, the capacity manager comprising:

11   a minimum resource enforcement mechanism that controls access to

12   a minimum resource specification for each of the plurality of logical

13   partitions to assure the at least one temporary resource may be recovered

14   when the specified resource-time has expired.

1   5.   The apparatus of claim 4 wherein the partition manager further comprises:

2   an enablement code mechanism that evaluates an enablement code to determine

3   whether the code is valid, wherein the enablement code includes the specified resource-

4   time.

1   6.   The apparatus of claim 4 wherein the partition manager further comprises a

2   resource allocator that enables the at least one temporary resource.

1   7.   The apparatus of claim 6 wherein the resource allocator recovers the at least one

2   temporary resource when the specified resource-time has expired.

1   8.   A computer-implemented method for providing at least one temporary resource on

2   demand for a specified resource-time in a computer system that includes a plurality of

3   logical partitions, the method comprising the steps of:

4   enabling the at least one temporary resource for the specified resource-time; and

5   controlling access to a minimum resource specification for each of the plurality of

6   logical partitions to assure the at least one temporary resource may be recovered when the

7   specified resource-time expires.

1   9.   The method of claim 8 wherein the step of controlling access to the minimum

2   resource specification for each of the plurality of logical partitions comprises the step of

3   not allowing a sum of all the minimum resource specifications for all of the plurality of

4   logical partitions to exceed a total of base resources in the computer system.

1   10.   A computer-implemented method for providing at least one temporary resource on

2   demand for a specified resource-time in a computer system that includes a plurality of

3   logical partitions, the method comprising the steps of:

4   requesting an enablement code corresponding to the at least one temporary

5   resource for the specified resource-time;

6   receiving the enablement code;

7   enabling the at least one temporary resource for the specified resource-time;

8   using the at least one temporary resource for the specified resource-time; and

9   controlling access to a minimum resource specification for each of the plurality of

10   logical partitions to assure the at least one temporary resource may be recovered when the

11   specified resource-time expires.

1   11.   The method of claim 10 further comprising the step of evaluating an enablement

2   code to determine whether the code is valid, wherein the enablement code includes the

3   specified resource-time.

1   12.   The method of claim 10 further comprising the step of enabling the at least one

2   temporary resource.

1   13.   The method of claim 10 further comprising the step of recovering the at least one

2   temporary resource when the specified resource-time expires.

1   14.   A program product comprising:

2   a capacity manager that manages at least one temporary resource on demand for a

3   specified resource-time in a computer system that includes a plurality of logical partitions,

4   the capacity manager controlling access to a minimum resource specification for each of

5   the plurality of logical partitions to assure the at least one temporary resource may be

6   recovered when the specified resource-time has expired; and

7   computer readable signal bearing media bearing the capacity manager.

1   15.   The program product of claim 14 wherein the signal bearing media comprises

2   recordable media.

1   16.   The program product of claim 14 wherein the signal bearing media comprises

2   transmission media.

1   17.   The program product of claim 14 wherein the capacity manager resides in a

2   partition manager that manages the plurality of logical partitions.

1   18.   The program product of claim 14 wherein the capacity manager controls access to

2   the minimum resource specification for each of the plurality of logical partitions by not

3   allowing a sum of all the minimum resource specifications for all of the plurality of logical

4   partitions to exceed a total of base resources in the computer system.

1   19.   A program product comprising:

2   (A) a partition manager comprising:

3   (A1) a capacity manager that manages at least one temporary resource on

4 demand for a specified resource-time in a computer system that includes a plurality

5 of logical partitions, the capacity manager comprising:

6   (A1a) a minimum resource enforcement mechanism that controls

7 access to a minimum resource specification for each of the plurality of

8 logical partitions to assure the at least one temporary resource may be

9 recovered when the specified resource-time has expired; and

10   (B) computer readable signal bearing media bearing the partition manager.

1   20.   The program product of claim 19 wherein the signal bearing media comprises

2 recordable media.

1   21.   The program product of claim 19 wherein the signal bearing media comprises

2 transmission media.

1   22.   The program product of claim 19 wherein the partition manager further comprises:

2   an enablement code mechanism that evaluates an enablement code to determine

3 whether the code is valid, wherein the enablement code includes the specified resource-

4 time.

1   23.   The program product of claim 19 wherein the partition manager further comprises

2 a resource allocator that enables the at least one temporary resource.

1   24.   The program product of claim 23 wherein the resource allocator recovers the at
2   least one temporary resource when the specified resource-time has expired.

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